



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Eydelman, et al.

Serial No.: 09/738,235

Filed: December 15, 2000

For: MRI ANTENNA

Group Art Unit: 2862

Examiner: Dixomara Vargas

260/147

Ext. w/att.
12/Elec/A
1-Step to
3-18-02

RESPONSE TO RESTRICTION REQUIREMENT AND AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office Action dated January 3, 2002, the above-identified patent application is being amended as shown below in the Clean Version of the Amendments and as shown in the Marked Up Version of the Amendments attached hereto.

Clean Version of the Amendments

In the Specification

The paragraph on page 1, lines 4-6 should read as follows:

a' The present application claims the benefit of U.S.S.N. 60/172,199, filed on December 17, 1999, assigned to the assignee of the present application and incorporated by reference herein.

aa The paragraph on page 1, lines 8-11 should read:

The present application is related to U.S.S.N. 09/738,236, and U.S.S.N. 09/738,233, both filed on the same day as the present application, assigned to the assignee of the present application and incorporated by reference, herein.

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84.00 DP
54.00 DP

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In the Claims

Claim 9 has been amended to read as follows:

9. (Amended) The MRI antenna of Claim 8, further comprising a second coaxial cable unit adjacent to the first coaxial cable unit such that the first and second coaxial cable units are inductively coupled during operation, the second coaxial cable unit comprising a second inner conductor and a second outer conductor, each having first and second ends, respectively, wherein the second outer conductor substantially surrounds the second inner conductor and the first end of the inner conductor is electrically connected to the second end of the inner conductor across a capacitor and the first end of the outer conductor is connected to the second end of the outer conductor across a capacitor;

the second inner conductor comprising a first section between the first end and a third end and a second section between the second end and a fourth end, the third end and the fourth end being electrically connected across a capacitor;

the second outer conductor comprising a first section between the first end and a third end and a second section between the second end and a fourth end, the second and fourth ends being electrically connected across a capacitor.

The following claims have been added:

11. (New) The MRI antenna of Claim 8, further comprising a support supporting the first and second sections in a same plane.--

12. (New) An MRI antenna, comprising:
detecting means for directly detecting magnetic resonance signals emitted by a subject; and

receiving means for inductively receiving signals corresponding to the detected magnetic resonance signals from the detecting means, and for providing received signals for analysis;

wherein the detecting means shields the receiving means from direct detection of the magnetic resonance signals means.--

93. (New) The MRI antenna of Claim 87, further comprising filtering means for filtering the detected signals and the received signals.

Remarks

I. Status of the Application

Claims 1-88 are currently pending. Claim 9 has been amended. Claims 86 – 88 have been added.

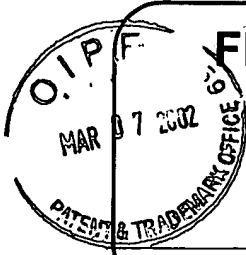
II. The Restriction Requirement

In an Office Action dated January 3, 2002 in the above-identified patent application, the Examiner required restriction between the claims of Group I (claims 1-70 and 84), drawn to an MRI antenna, Group II (claims 71-77 and 85), drawn to an MRI system, and Group III (claims 78-83), drawn to a method of detecting MR signals.

Applicant elects the claims of Group I, with traverse.

It is respectfully submitted that restriction is not proper between Group I and Group II. The MRI systems defined by Claims 71-77 and 85 of Group II include antennas substantially similar to the antennas defined by at least certain of the apparatus claims of Group I. In particular, the MRI system defined by Claim 71 includes an antenna substantially similar to the antenna defined in apparatus Claim 54; the MRI system defined by Claim 72 includes an antenna substantially similar

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FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.



TOTAL AMOUNT OF PAYMENT

(\$)

Complete if Known

Application Number 09/738,235
Filing Date December 15, 2000
First Named Inventor Eydelman et al.
Examiner Name Dixomara Vargas
Group / Art Unit 2862
Attorney Docket No. 260/147

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit
Account
Number

12-2475

Deposit
Account
Name

Lyon & Lyon

- ☒ Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17
☐ Applicant claims small entity status.
See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money
Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1)

(\$)

2. EXTRA CLAIM FEES

			Extra Claims		Fee from below		Fee Paid
Total Claims	88	-20**	=	85Paid 3 Extra	X	18	= 54
Independent Claims	20	-3**	=	16Paid 1Extra	X	84	= 84
Multiple Dependent					X		= 0

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$138)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

Fee Code	Large Entity Fee (\$)	Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	130	123	130	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

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SUBMITTED BY

Name (Print/Type) Brandon N. Sklar Registration No. Attorney/Agent 31,667, Telephone (914) 681-8851
Signature [Signature] Date 2/2/02

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